FIG.1

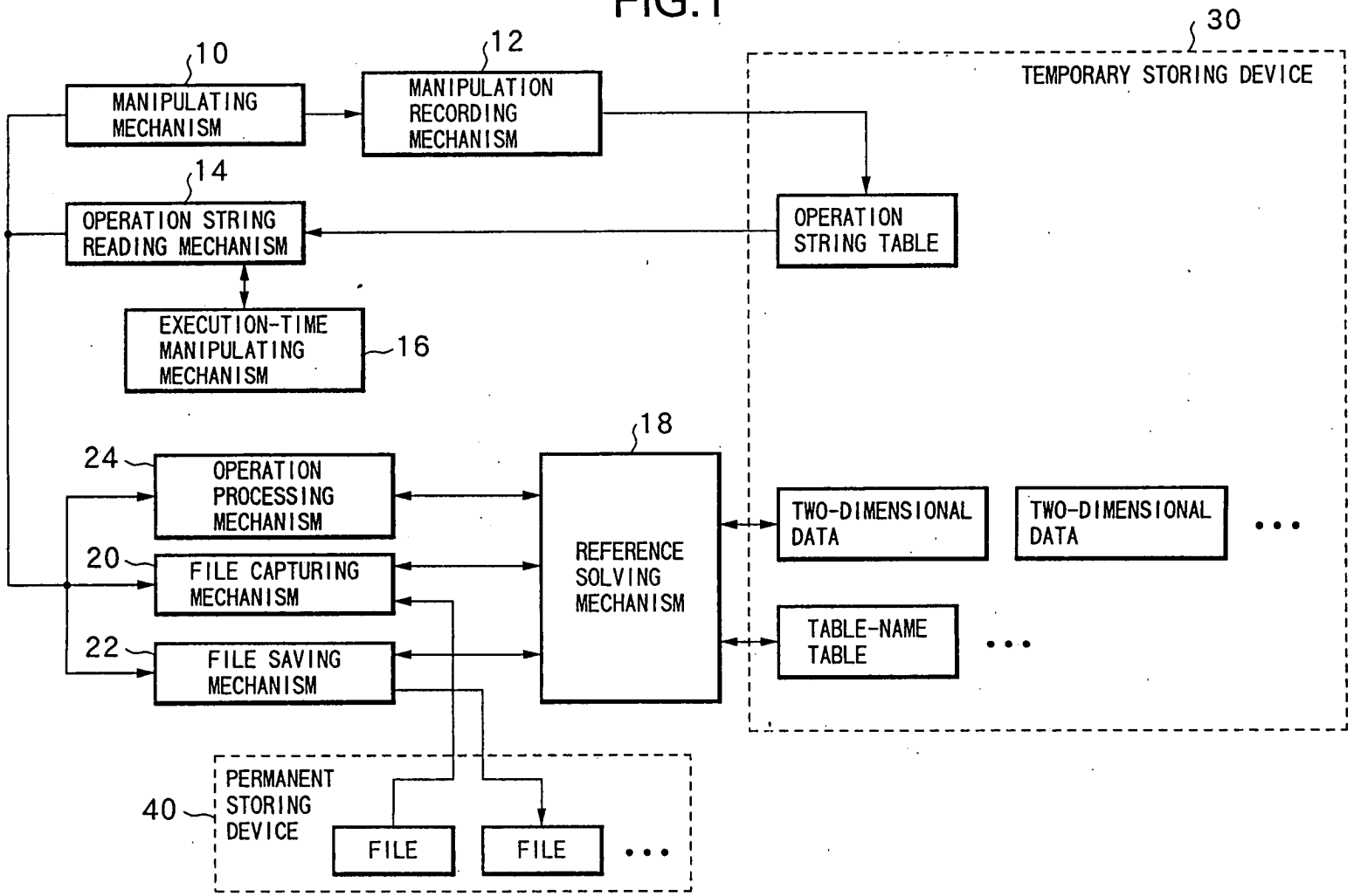

10
MANIPULATING MECHANISM
12
MANIPULATION RECORDING MECHANISM
30
TEMPORARY STORING DEVICE
14
OPERATION STRING READING MECHANISM
OPERATION STRING TABLE
EXECUTION-TIME MANIPULATING MECHANISM
16
18
24
OPERATION PROCESSING MECHANISM
20
FILE CAPTURING MECHANISM
22
FILE SAVING MECHANISM
REFERENCE SOLVING MECHANISM
TWO-DIMENSIONAL DATA
TWO-DIMENSIONAL DATA
TABLE-NAME TABLE
40
PERMANENT STORING DEVICE
FILE
FILE

FIG.2

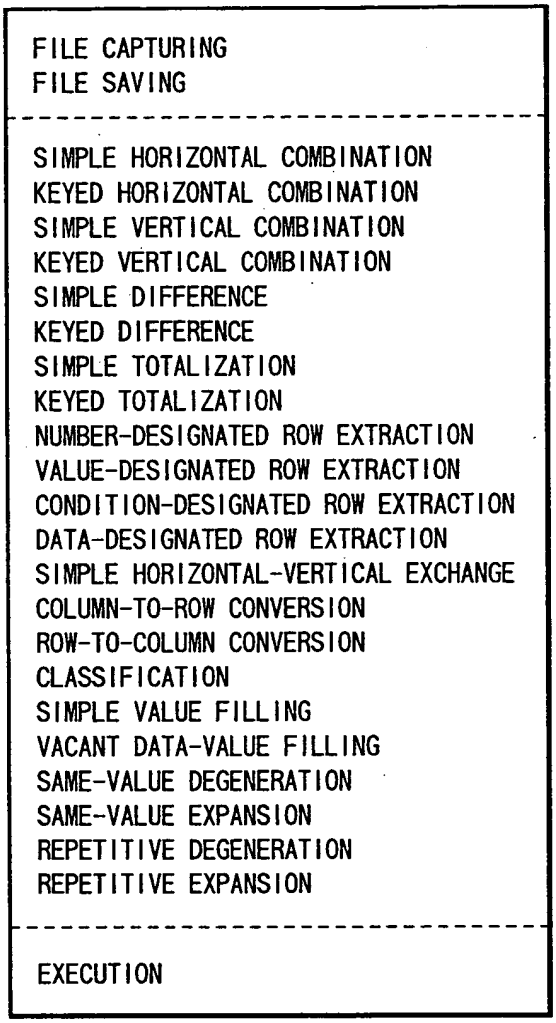

FILE CAPTURING
FILE SAVING
SIMPLE HORIZONTAL COMBINATION
KEYED HORIZONTAL COMBINATION
SIMPLE VERTICAL COMBINATION
KEYED VERTICAL COMBINATION
SIMPLE DIFFERENCE
KEYED DIFFERENCE
SIMPLE TOTALIZATION
KEYED TOTALIZATION
NUMBER-DESIGNATED ROW EXTRACTION
VALUE-DESIGNATED ROW EXTRACTION
CONDITION-DESIGNATED ROW EXTRACTION
DATA-DESIGNATED ROW EXTRACTION
SIMPLE HORIZONTAL-VERTICAL EXCHANGE
COLUMN-TO-ROW CONVERSION
ROW-TO-COLUMN CONVERSION
CLASSIFICATION
SIMPLE VALUE FILLING
VACANT DATA-VALUE FILLING
SAME-VALUE DEGENERATION
SAME-VALUE EXPANSION
REPETITIVE DEGENERATION
REPETITIVE EXPANSION
EXECUTION

FIG.3

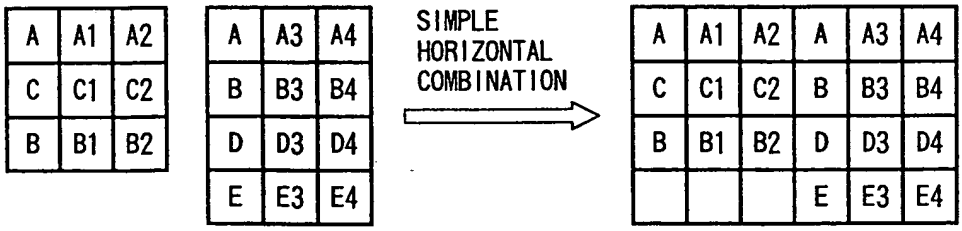
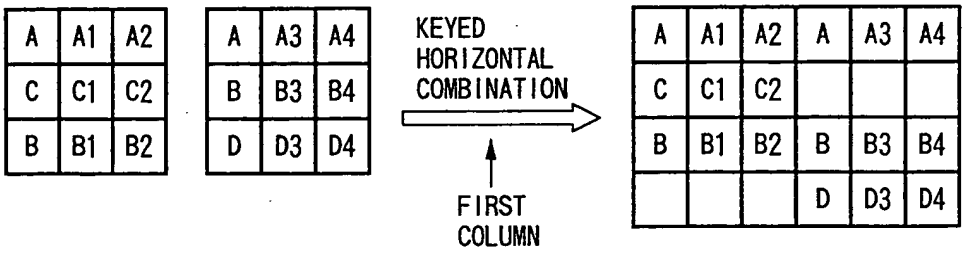

A A1 A2
C C1 C2
B B1 B2
A A3 A4
B B3 B4
D D3 D4
E E3 E4
SIMPLE
HORIZONTAL
COMBINATION
A A1 A2 A A3 A4
C C1 C2 B B3 B4
B B1 B2 D D3 D4
E E3 E4

FIG.4

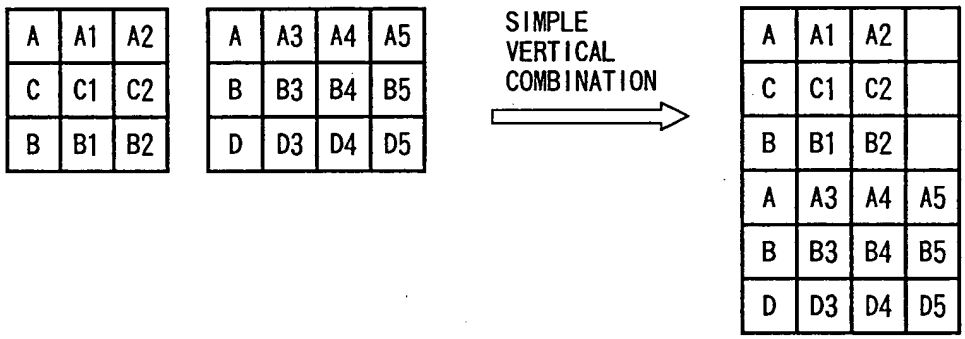


A	A1	A2
C	C1	C2
B	B1	B2

A	A3	A4
B	B3	B4
D	D3	D4

A	A1	A2	A	A3	A4
C	C1	C2			
B	B1	B2	B	B3	B4
			D	D3	D4

FIG.5

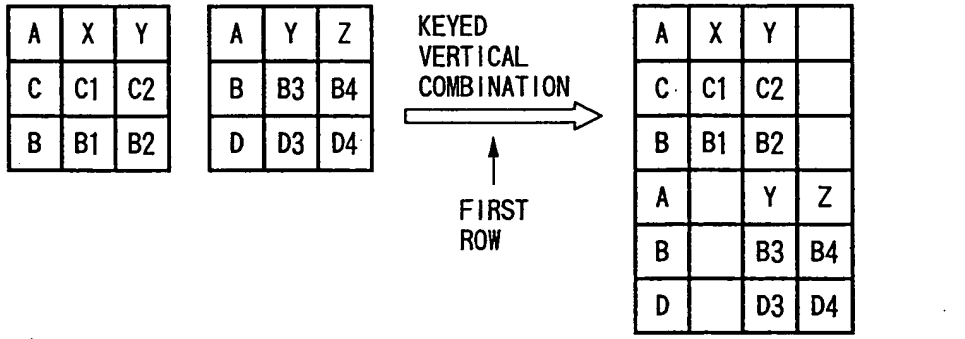


A	A1	A2
C	C1	C2
B	B1	B2

A	A3	A4	A5
B	B3	B4	B5
D	D3	D4	D5

A	A1	A2	
C	C1	C2	
B	B1	B2	
A	A3	A4	A5
B	B3	B4	B5
D	D3	D4	D5

FIG.6



A	X	Y
C	C1	C2
B	B1	B2

A	Y	Z
B	B3	B4
D	D3	D4

A	X	Y	
C	C1	C2	
B	B1	B2	
A		Y	Z
B		B3	B4
D		D3	D4

FIG.7

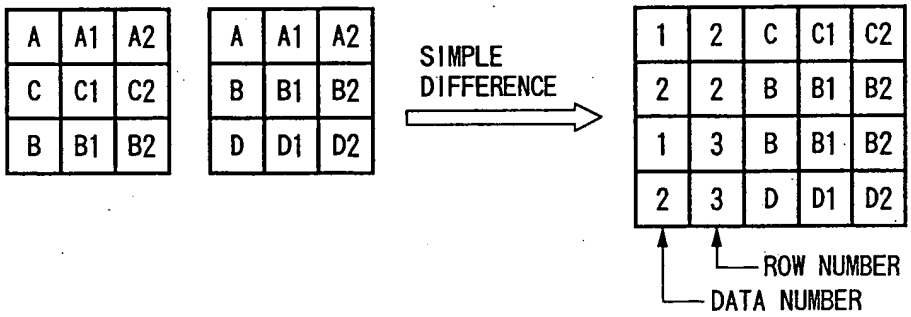


FIG.8

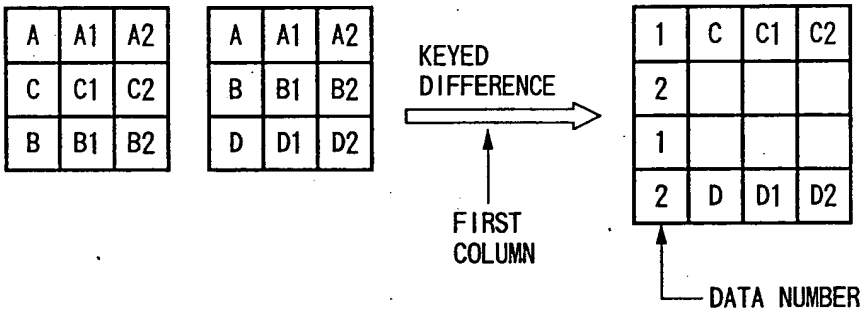


FIG.9

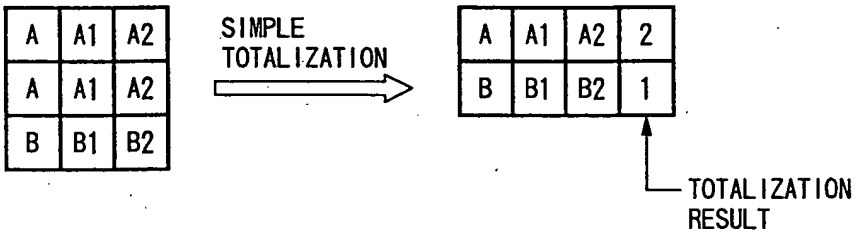


FIG.10

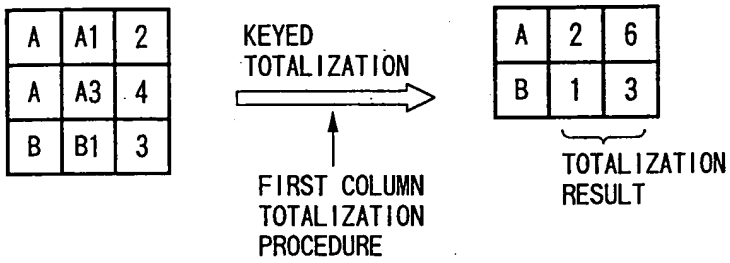


FIG.11

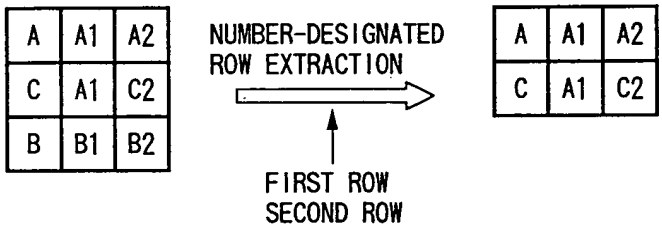


FIG.12

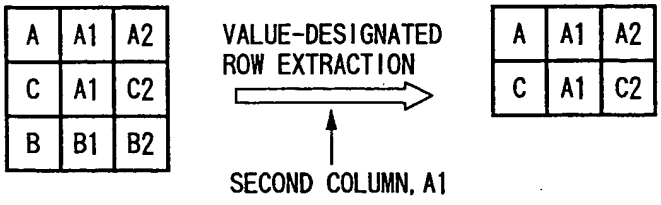


FIG.13

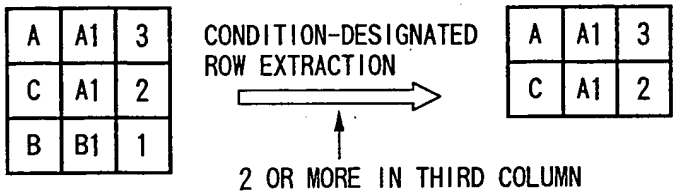


FIG.14

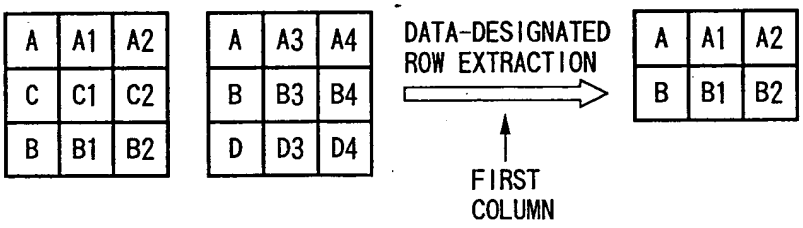


FIG.15

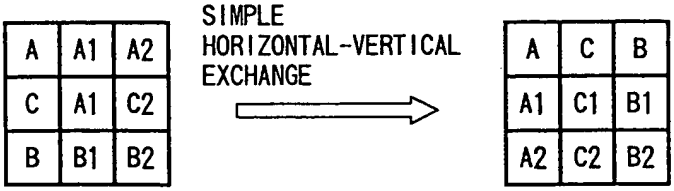


FIG.16

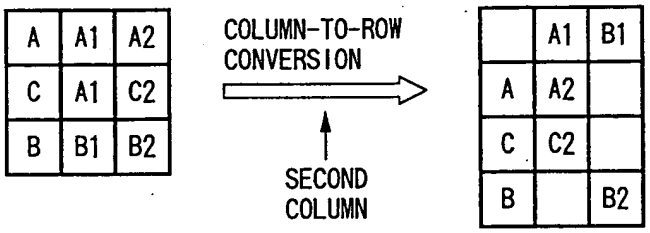


FIG.17

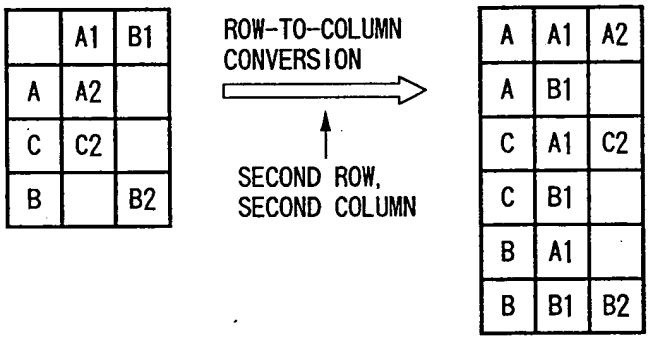


FIG.18

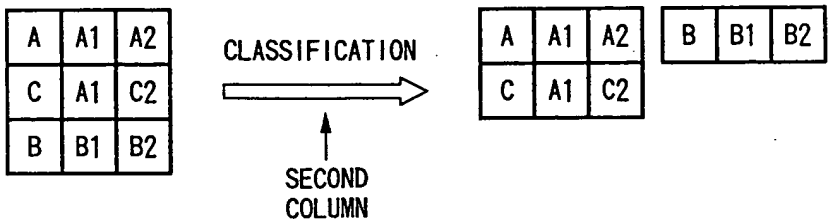


FIG.19

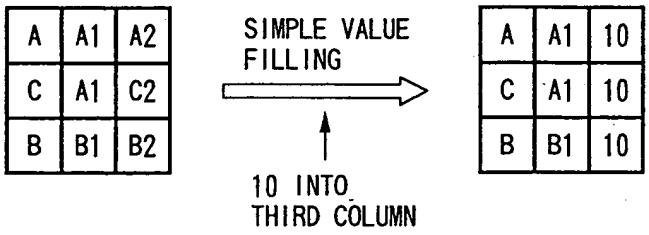


FIG.20

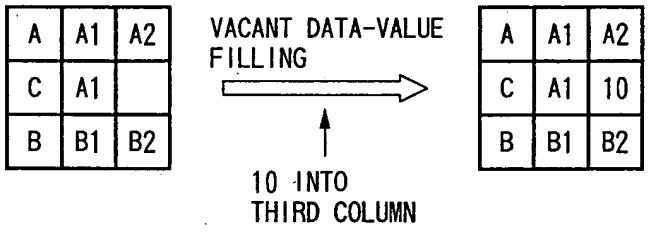


FIG.21

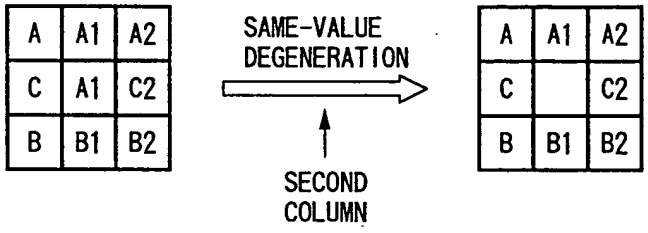


FIG.22

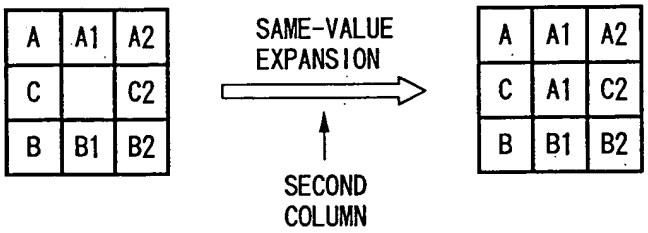


FIG.23

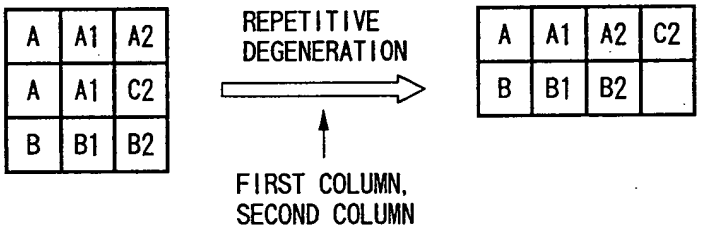


FIG.24

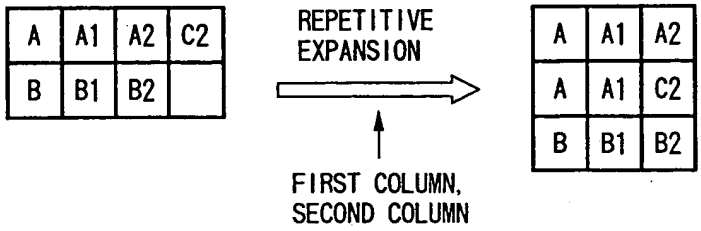


FIG.25

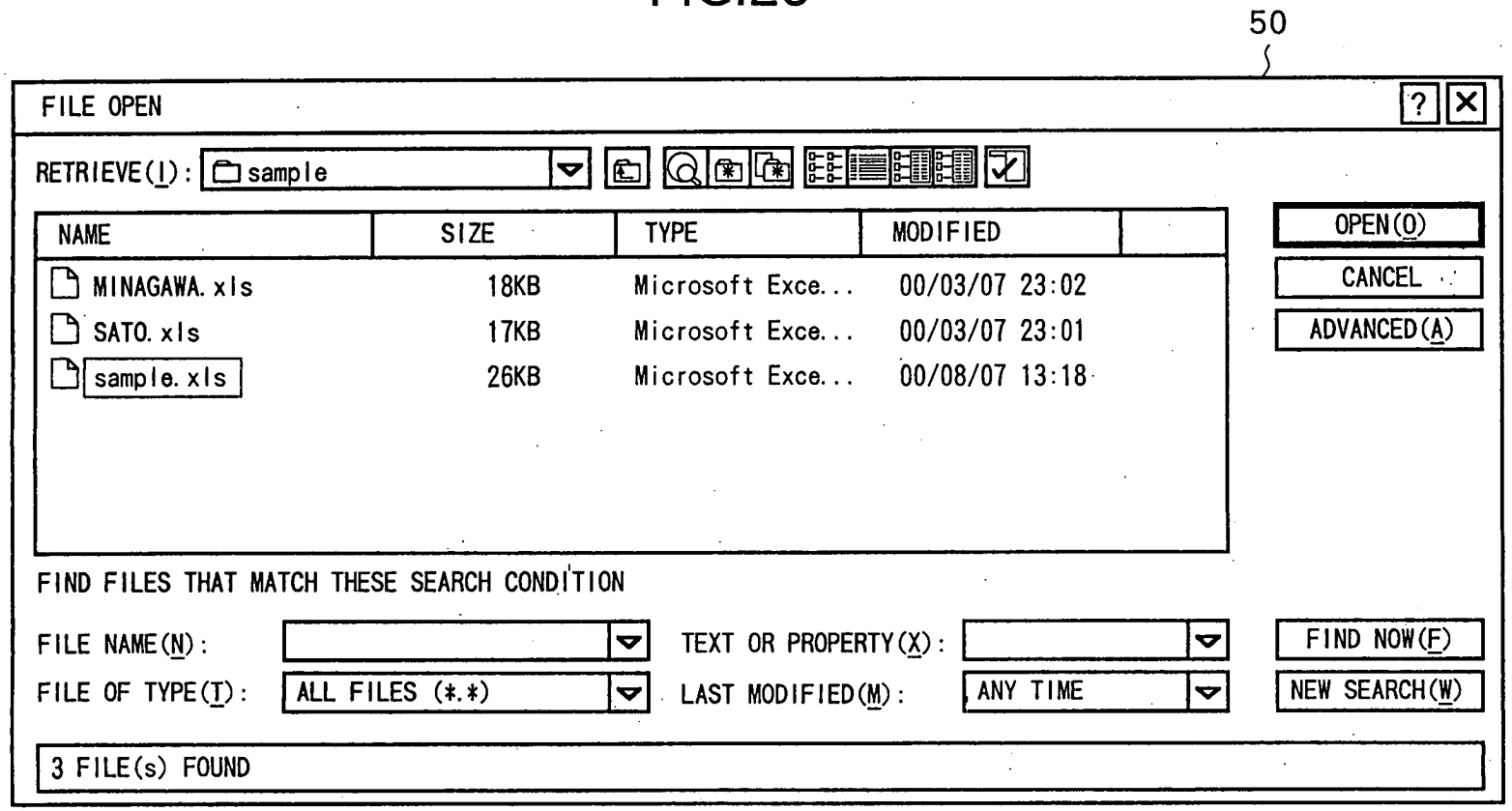
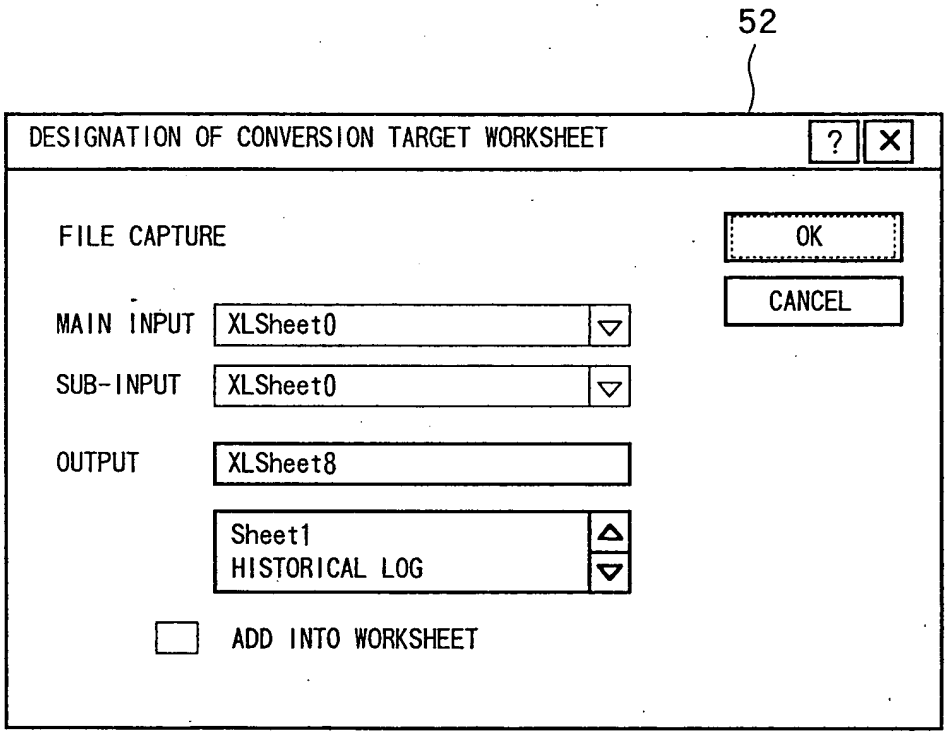

50
FILE OPEN
RETRIEVE(I):
sample
NAME
SIZE
TYPE
MODIFIED
MINAGAWA.xls
18KB
Microsoft Exce...
00/03/07 23:02
SATO.xls
17KB
Microsoft Exce...
00/03/07 23:01
sample.xls
26KB
Microsoft Exce...
00/08/07 13:18
OPEN(O)
CANCEL
ADVANCED(A)
FIND FILES THAT MATCH THESE SEARCH CONDITION
FILE NAME(N):
TEXT OR PROPERTY(X):
FILE OF TYPE(T):
ALL FILES (*.*)
LAST MODIFIED(M):
ANY TIME
FIND NOW(F)
NEW SEARCH(W)
3 FILE(s) FOUND

FIG.26


52
DESIGNATION OF CONVERSION TARGET WORKSHEET
?
FILE CAPTURE
OK
CANCEL
MAIN INPUT
XLSheet0
SUB-INPUT
XLSheet0
OUTPUT
XLSheet8
Sheet1
HISTORICAL LOG
ADD INTO WORKSHEET

FUNTEC0"ES0TB260

FIG.27

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1					TCP/IP SUMMARY	UNIX SYSTEM CALL PROGRAMMING	UNIX NETWORK PROGRAMMING	BASIS OF PROGRAM DEVELOPMENT ON UNIX	BASIS OF MULTITHREAD PROGRAMMING BY WIN32API	BASIS OF DATA STRUCTURE	BASIS OF DATA STRUCTURE	REVIEW TECHNIQUE	QUALITY CONTROL TECHNIQUE FOR LEADERS	PROJECT SIMULATION	PROJECT SIMULATION	DIRECTING AND EDUCATING SUBORDINATE	PROBLEM FINDING AND SOLVING SKILL	SUBJECT FINDING ABILITY IMPROVEMENT FOR IMPROVED PROFIT	REVIEW TEST TECHNIQUE IN PROGRAM DEVELOPMENT	PARTS REUSAGE TECHNIQUE IN PROGRAM DEVELOPMENT	SQL GUIDE	BASIS OF NETWORK	DESIGN PRACTICE OF LAN	DESIGN PRACTICE OF WAN	BASIS OF UNIX NETWORK
2				TRAINING TYPE	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O	FLM	FLM	FLM	FLM	FLM	FLM	FLM
3				HELD MONTH	2	11	11	12	10	11	3	12	'12	2	3			1	2	11.2	EVERY MONTH	EVERY MONTH	EVERY MONTH	EVERY MONTH	EVERY MONTH
4				HELD PLACE	EACH PLACE	TECH	TECH	NUMAZU	NUMAZU	TECH	NUMAZU	CORRESPONDENCE	NUMAZU	CAMP	CAMP			TECH	OSAKA	OSAKA	OSAKA, TOKYO	TOKYO(OSAKA	TOKYO(OSAKA	TOKYO(OSAKA	TOKYO(OSAKA
5	SECTION	PROJECT	EMPLOYEE NO.	NAME																					
6	1ST DEV. DEP	GS/SURE	363220	I. AOKI			◎		○			●													
7	1ST DEV. DEP	GS/SURE	363213	J. ADACHI																					
8	1ST DEV. DEP	GS/SURE	371704	S. ARAI							□														
9	1ST DEV. DEP	GS/SURE	392272	S. IKEDA																					
10	1ST DEV. DEP	GS/SURE	392282	G. ISHII	●												○					●			
11	1ST DEV. DEP	GS/SURE	382072	R. INOUE	●																				
12	1ST DEV. DEP	GS/SURE	402634	S. IWAKI																					
13	1ST DEV. DEP	GS/SURE	363248	H. UEDA				◎																	
14	1ST DEV. DEP	GS/SURE	371724	K. ENDO													◎					○			
15	1ST DEV. DEP	GS/SURE	414406	J. OMORI																					
16	1ST DEV. DEP	GS/SURE	425929	J. OCHI									OK												
17	1ST DEV. DEP	GS/SURE	402545	I. OHBA																					

XLSheet0

FIG.28

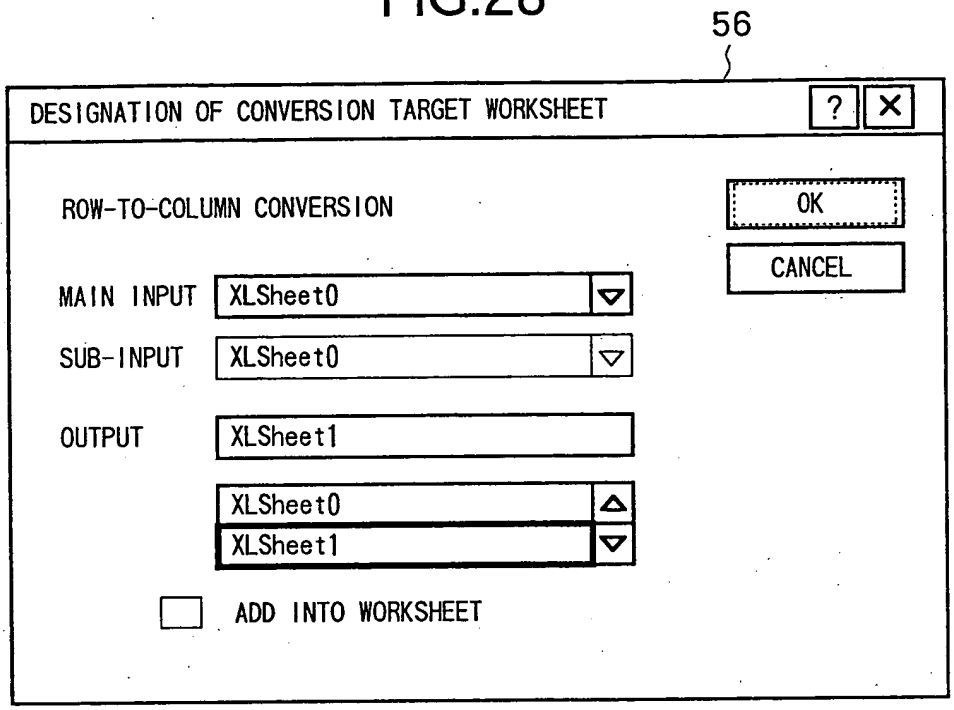
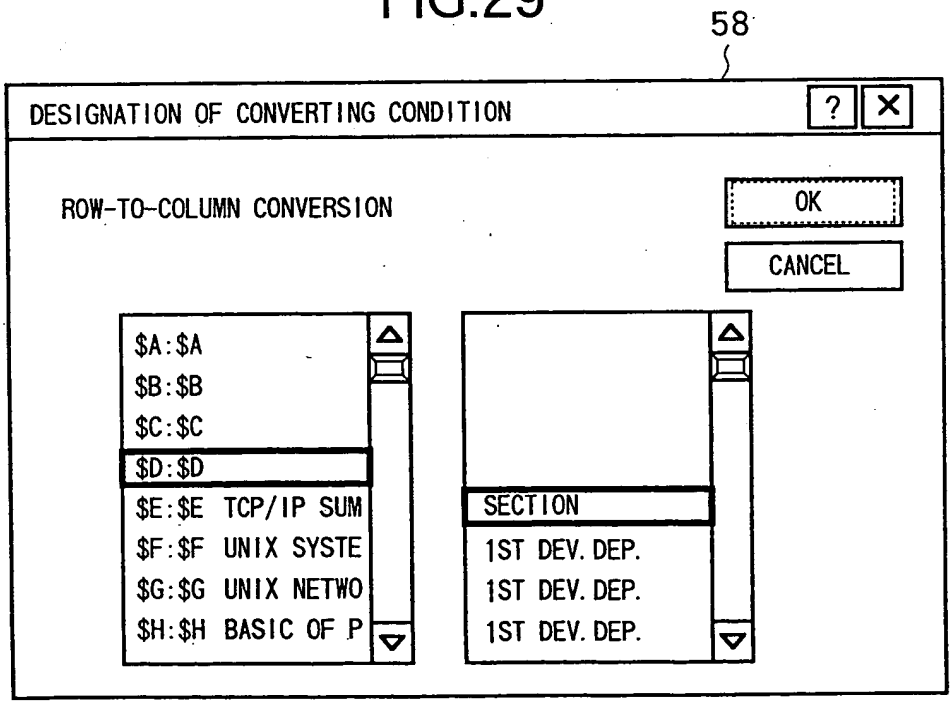

56
DESIGNATION OF CONVERSION TARGET WORKSHEET
?
ROW-TO-COLUMN CONVERSION
OK
CANCEL
MAIN INPUT
XLSheet0
SUB-INPUT
XLSheet0
OUTPUT
XLSheet1
XLSheet0
XLSheet1
ADD INTO WORKSHEET

FIG.29


58
DESIGNATION OF CONVERTING CONDITION
?
ROW-TO-COLUMN CONVERSION
OK
CANCEL
$A:$A
$B:$B
$C:$C
$D:$D
$E:$E TCP/IP SUM
$F:$F UNIX SYSTE
$G:$G UNIX NETWO
$H:$H BASIC OF P
SECTION
1ST DEV. DEP.
1ST DEV. DEP.
1ST DEV. DEP.

FOMF20" E96T8260

FIG.30

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	A	B	C	D	E	F	G	H	I	J	K
1	1ST DEV. DEP	GS/SURE	363220	I. AOKI	TCP/IP SUMMARY	S. B. O	2	EACH PLACE			
2	1ST DEV. DEP	GS/SURE	363220	I. AOKI	UNIX SYSTEM CALL PROGRAMMING	S. B. O	11	TECH			
3	1ST DEV. DEP	GS/SURE	363220	I. AOKI	UNIX NETWORK PROGRAMMING	S. B. O	11	TECH		◎	
4	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF PROGRAM DEVELOPMENT ON UNIX	S. B. O	12	NUMAZU			
5	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF MULTITHREAD PROGRAMMING BY WIN32API	S. B. O	10	NUMAZU		○	
6	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF DATA STRUCTURE	S. B. O	11	TECH			
7	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF DATA STRUCTURE	S. B. O	3	NUMAZU			
8	1ST DEV. DEP	GS/SURE	363220	I. AOKI	REVIEW TECHNIQUE	S. B. O	12	CORRESPONDENCE			
9	1ST DEV. DEP	GS/SURE	363220	I. AOKI	QUALITY CONTROL TECHNIQUE FOR LEADERS	S. B. O	12	NUMAZU		●	
10	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PROJECT SIMULATION	S. B. O	2	CAMP			
11	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PROJECT SIMULATION	S. B. O	3	CAMP			
12	1ST DEV. DEP	GS/SURE	363220	I. AOKI	DIRECTING AND EDUCATING SUBORDINATE	S. B. O					
13	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PROBLEM FINDING AND SOLVING SKILL	S. B. O					
14	1ST DEV. DEP	GS/SURE	363220	I. AOKI	SUBJECT FINDING ABILITY IMPROVEMENT FOR IMPROVED PROFIT	S. B. O	1	TECH			
15	1ST DEV. DEP	GS/SURE	363220	I. AOKI	REVIEW TEST TECHNIQUE IN PROGRAM DEVELOPMENT	FLM	2	OSAKA			
16	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PARTS REUSAGE TECHNIQUE IN PROGRAM DEVELOPMENT	FLM	11, 2	OSAKA			
17	1ST DEV. DEP	GS/SURE	363220	I. AOKI	SQL GUIDE	FLM	EVERY MONTH	OSAKA, TOKYO			
18	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF NETWORK	FLM	EVERY MONTH	TOKYO(OSAKA)			
19	1ST DEV. DEP	GS/SURE	363220	I. AOKI	DESIGN PRACTICE OF LAN	FLM	EVERY MONTH	TOKYO(OSAKA)			
20	1ST DEV. DEP	GS/SURE	363220	I. AOKI	DESIGN PRACTICE OF WAN	FLM	EVERY MONTH	TOKYO(OSAKA)			
21	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF UNIX NETWORK	FLM	EVERY MONTH	TOKYO(OSAKA)			
22	1ST DEV. DEP	GS/SURE	363220	I. AOKI	UNIX NETWORK PROGRAMMING	FLM	11, 2	TOKYO			
23	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF WINDOWS NT	FLM	EVERY MONTH	TOKYO(OSAKA)			
24	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF PROJECT MANAGEMENT	FLM	EVERY MONTH	TOKYO(OSAKA)			
25	1ST DEV. DEP	GS/SURE	363220	I. AOKI	BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	FLM	11, 1, 3	TOKYO			
26	1ST DEV. DEP	GS/SURE	363220	I. AOKI	SYSTEM QUALITY MANAGEMENT WORKSHOP	FLM	2	TOKYO			
27	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11, 2	TOKYO		◎	
28	1ST DEV. DEP	GS/SURE	363220	I. AOKI	ACTION TRAINING FOR LEADERS	FLM				○	
29	1ST DEV. DEP	GS/SURE	363220	I. AOKI	RISK MANAGEMENT WORKSHOP	FLM	12, 1	TOKYO			
30	1ST DEV. DEP	GS/SURE	363220	I. AOKI	DEBATING TECHNIQUE	S. B. O	2	TECH			

XLSheet1

FIG.31

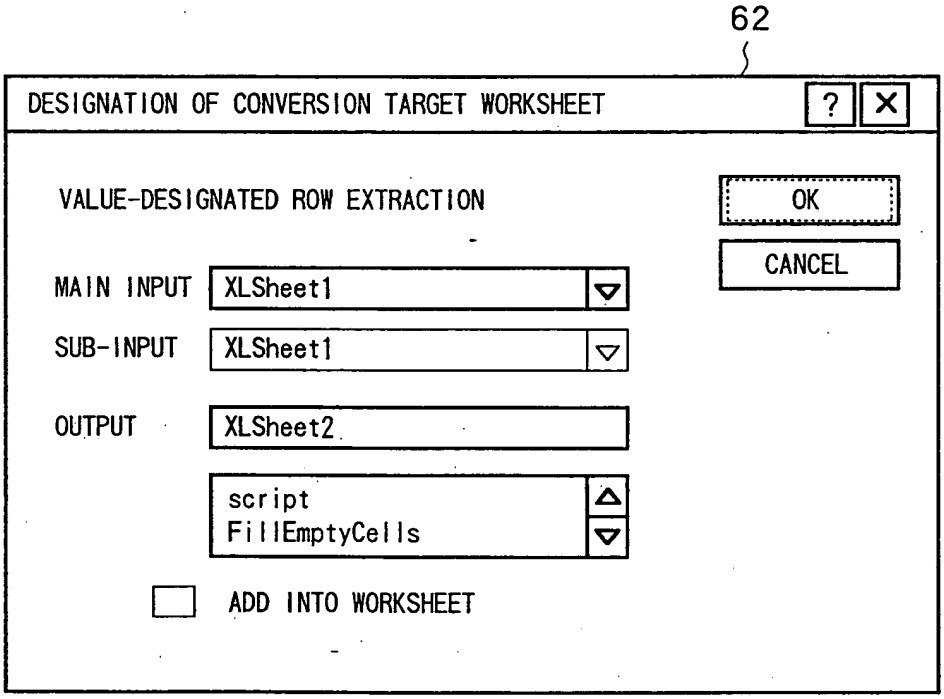
62
DESIGNATION OF CONVERSION TARGET WORKSHEET
?
VALUE-DESIGNATED ROW EXTRACTION
OK
CANCEL
MAIN INPUT
XLSheet1
SUB-INPUT
XLSheet1
OUTPUT
XLSheet2
script
FillEmptyCells
ADD INTO WORKSHEET

FIG.32

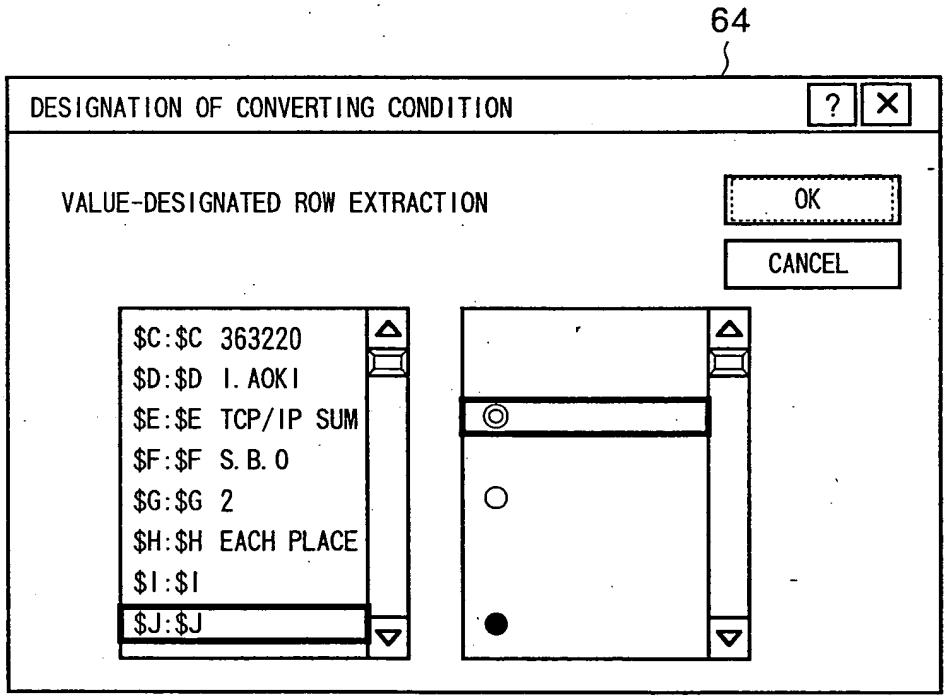
64
DESIGNATION OF CONVERTING CONDITION
?
VALUE-DESIGNATED ROW EXTRACTION
OK
CANCEL
$C:$C 363220
$D:$D I.AOKI
$E:$E TCP/IP SUM
$F:$F S.B.O
$G:$G 2
$H:$H EACH PLACE
$I:$I
$J:$J

FIG.33

66

	A	B	C	D	E	F	G	H	I	J	K
1	1ST DEV. DEP	GS/SURE	363220	I. AOKI	UNIX NETWORK PROGRAMMING	S. B. 0	11	TECH		◎	
2	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PSYCHOROGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11, 2	TOKYO		◎	
3	1ST DEV. DEP	GS/SURE	363213	J. ADACHI	PEOPLE RELATION TRAINING LECTURE	FLM				◎	
4	1ST DEV. DEP	GS/SURE	363213	J. ADACHI	NEGOTIATION SKILL-UP	FLM				◎	
5	1ST DEV. DEP	GS/SURE	371704	S. ARAI	BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	FLM	11, 1, 3	TOKYO		◎	
6	1ST DEV. DEP	GS/SURE	392272	S. IKEDA	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11, 2	TOKYO		◎	
7	1ST DEV. DEP	GS/SURE	392282	G. ISHII	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11, 2	TOKYO		◎	
8	1ST DEV. DEP	GS/SURE	382076	R. INOUE	JAVA PROGRAMMING GUIDE	FLM				◎	
9	1ST DEV. DEP	GS/SURE	382076	R. INOUE	JAVA APPLET GUIDE(VOD)	S. B. 0				◎	
10	1ST DEV. DEP	GS/SURE	402634	S. IWAKI	SOFTWARE DEVELOPMENT AND PATENT	S. B. 0	1	TECH		◎	
11	1ST DEV. DEP	GS/SURE	363248	H. UEDA	BASIS OF SOFTWARE DEVELOPMENT ON UNIX	S. B. 0	12	NUMAZU		◎	
12	1ST DEV. DEP	GS/SURE	363248	H. UEDA	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11, 2	TOKYO		◎	
13	1ST DEV. DEP	GS/SURE	371724	K. ENDO	PROBLEM FINDING AND SOLVING ABILITY	S. B. 0				◎	
14	1ST DEV. DEP	GS/SURE	414406	J. OMORI	C++GUIDE	H. R	12	EDUCACTION CENTER(EC)		◎	
15	1ST DEV. DEP	GS/SURE	414406	J. OMORI	CORBA					◎	
16	1ST DEV. DEP	GS/SURE	425929	J. OCHI	POINT OF SOFTWARE-RELATED PAT. APPLN.	S. B. 0				◎	
17	1ST DEV. DEP	GS/SURE	425929	J. OCHI	BASIS OF PAT. APPLN.	S. B. 0				◎	
18	1ST DEV. DEP	GS/SURE	402646	J. OHARA	VISUAL BASIC GUIDE	S. B. 0	3	NUMAZU		◎	
19	1ST DEV. DEP	GS/SURE	480159	J. KAWAMOTO	BASIS OF SOFTWARE DEVELOPMENT ON UNIX	S. B. 0	12	NUMAZU		◎	
20	1ST DEV. DEP	GS/SURE	480159	J. KAWAMOTO	BASIS OF UNIX NETWORK	FLM	EVERY MONTH	TOKYO(OSAKA)		◎	
21	1ST DEV. DEP	GS/SURE	480159	J. KAWAMOTO	HOW TO MAKE SHELL SCRIPT(FOR BEGINNER)	S. B. 0	2	CORRESPONDENCE		◎	
22											
23											
24											
25											
26											
27											
28											
29											
30											

XLSheet2

FIG.34

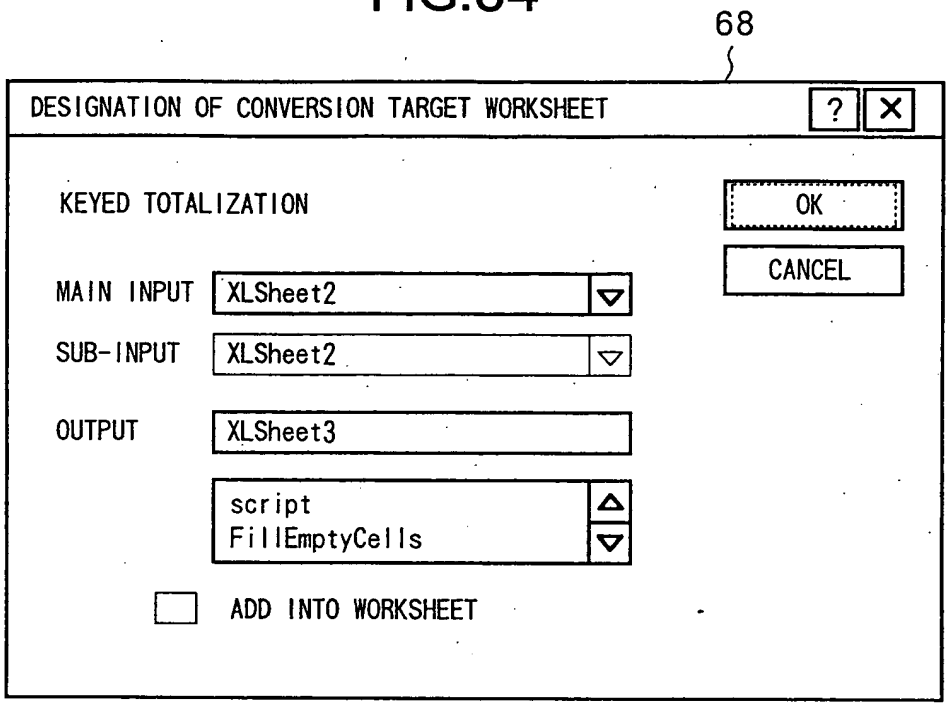
68
DESIGNATION OF CONVERSION TARGET WORKSHEET
?
KEYED TOTALIZATION
OK
CANCEL
MAIN INPUT
XLSheet2
SUB-INPUT
XLSheet2
OUTPUT
XLSheet3
script
FillEmptyCells
ADD INTO WORKSHEET

FIG.35

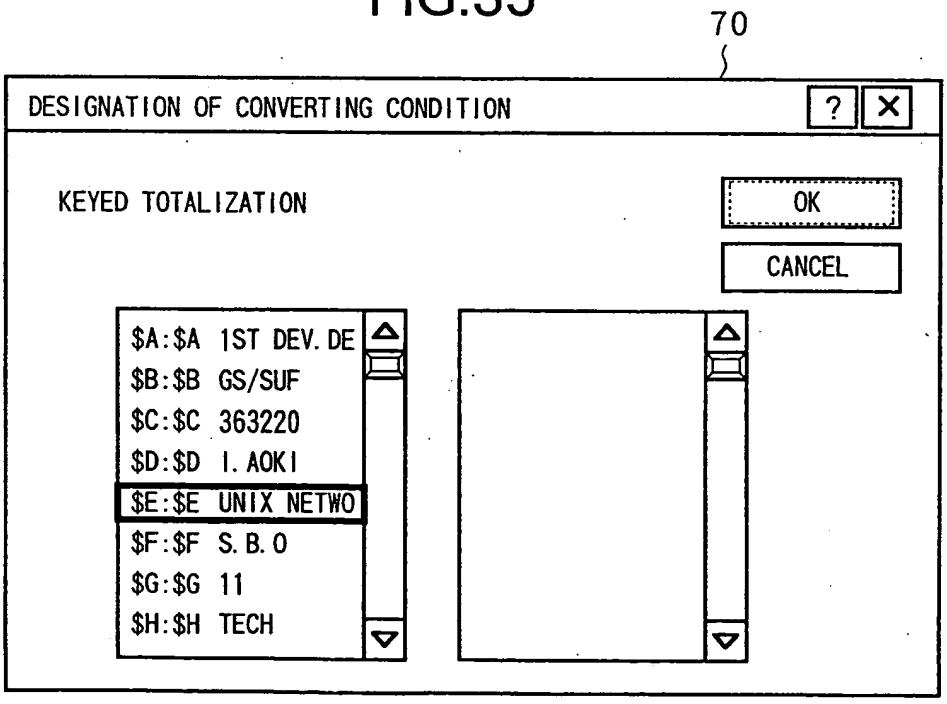
70
DESIGNATION OF CONVERTING CONDITION
?
KEYED TOTALIZATION
OK
CANCEL
$A:$A 1ST DEV.DE
$B:$B GS/SUF
$C:$C 363220
$D:$D I.AOKI
$E:$E UNIX NETWO
$F:$F S.B.O
$G:$G 11
$H:$H TECH

FIG.36

72

	A	B	C	D	E	F	G	H	I
1	C++GUIDE	1							
2	CORBA	1							
3	JAVA APPLET GUIDE(VOD)	1							
4	JAVA PROGRAMMING GUIDE	1							
5	BASIS OF UNIX NETWORK	1							
6	UNIX NETWORK PROGRAMMING	1							
7	BASIS OF PROGRAMMING DEVELOPMENT ON UNIX	2							
8	VISUAL BASIC GUIDE	1							
9	HOW TO MAKE SHELL SCRIPT(FOR BEGINNER)	1							
10	SOFTWARE DEVELOPMENT AND PATENT	1							
11	POINT OF SOFTWARE-RELATED PAT. APPLN.	1							
12	NEGOTIATION SKILL-UP	1							
13	BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	1							
14	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	4							
15	PEOPLE RELATION TRAINING LECTURE	1							
16	BASIS OF PAT. APPLN.	1							
17	PROBLEM FINDING AND SOLVING SKILL	1							
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

XLSheet3

JP2004-258760

FIG.37

74

	A	B	C	D	E	F	G	H	I
1	FILE CAPTURING	f:¥sample¥sample.xls	XLSheet0	XLSheet0	'				
2	ROW-TO-COLUMN CONVERSION	XLSheet0	XLSheet1	5	4				
3	VALUE-DESIGNATED ROW EXTRACTION	XLSheet1	XLSheet2	10	◎				
4	KEYED TOTALIZATION	XLSheet2	XLSheet3	5					
5									
6									
7									
8									
9									
10									
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26									
27									
28									

script

FIG.38

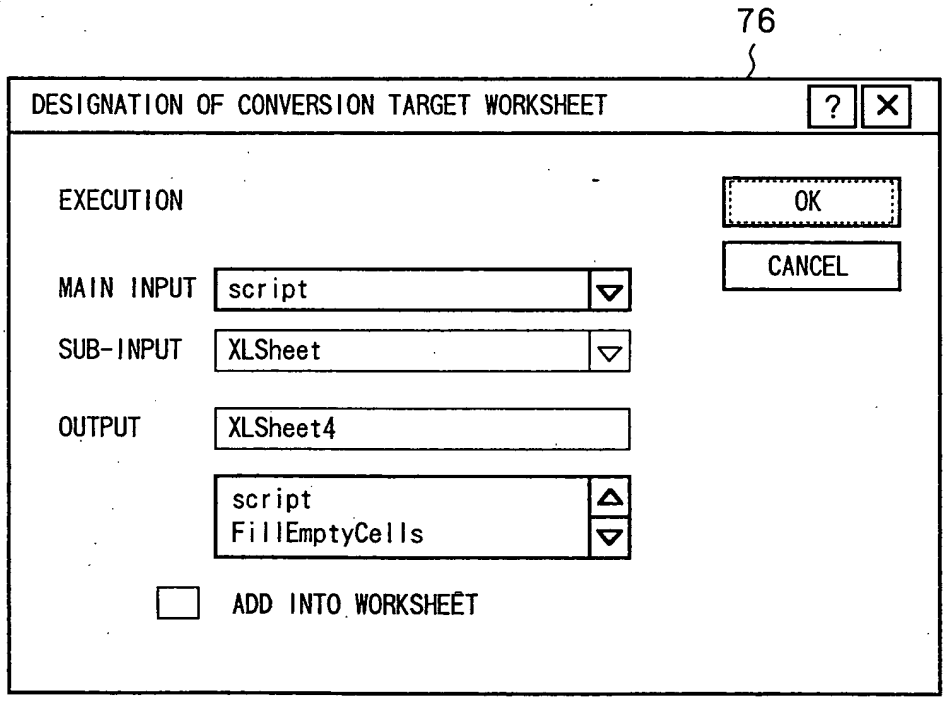
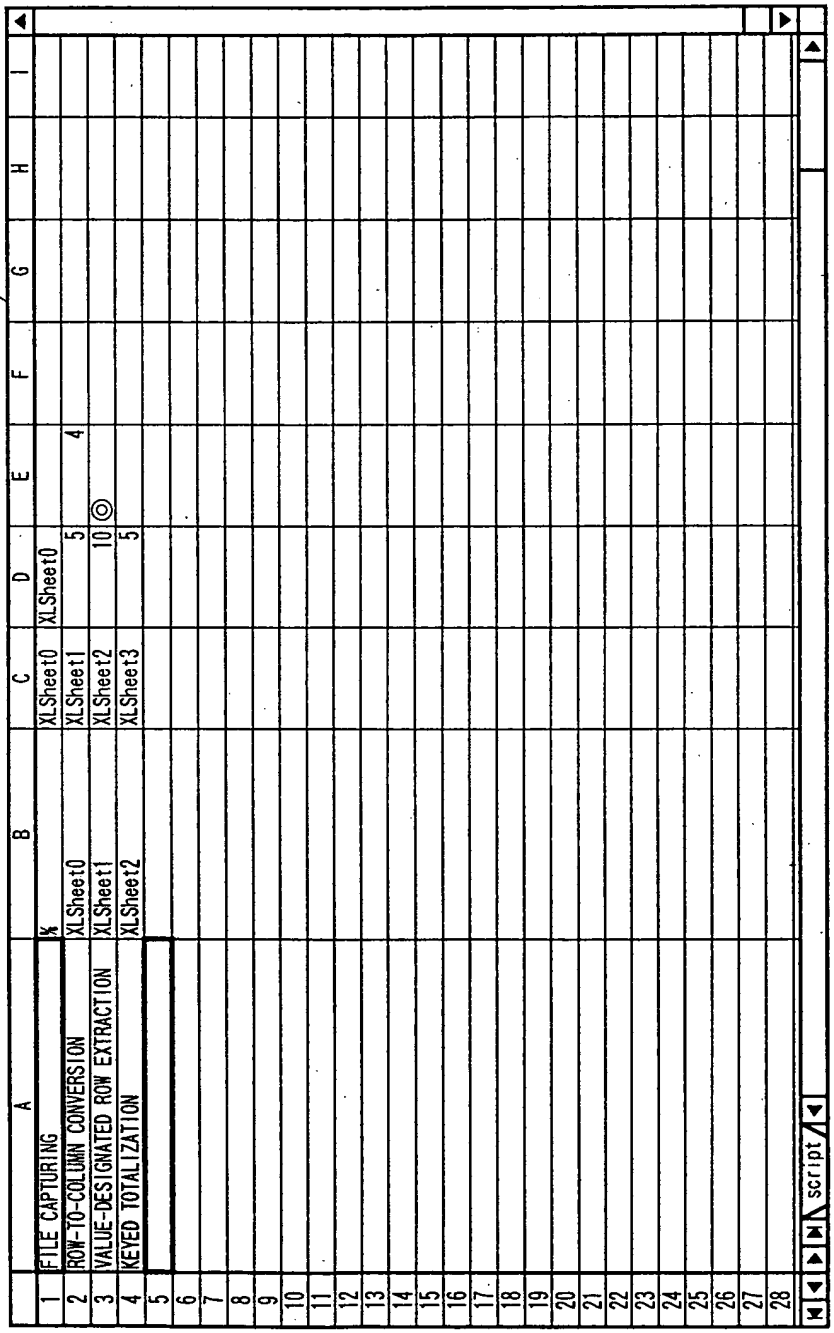

76
DESIGNATION OF CONVERSION TARGET WORKSHEET
?
EXECUTION
OK
CANCEL
MAIN INPUT
script
SUB-INPUT
XLSheet
OUTPUT
XLSheet4
script
FillEmptyCells
ADD INTO WORKSHEET

FIG.39


74
A
B
C
D
E
F
G
H
I
1 FILE CAPTURING
2 ROW-TO-COLUMN CONVERSION
3 VALUE-DESIGNATED ROW EXTRACTION
4 KEYED TOTALIZATION
5
6
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K
XLSheet0
XLSheet1
XLSheet2
XLSheet3
XLSheet0
5
4
10
◎
5
script

FIG.40

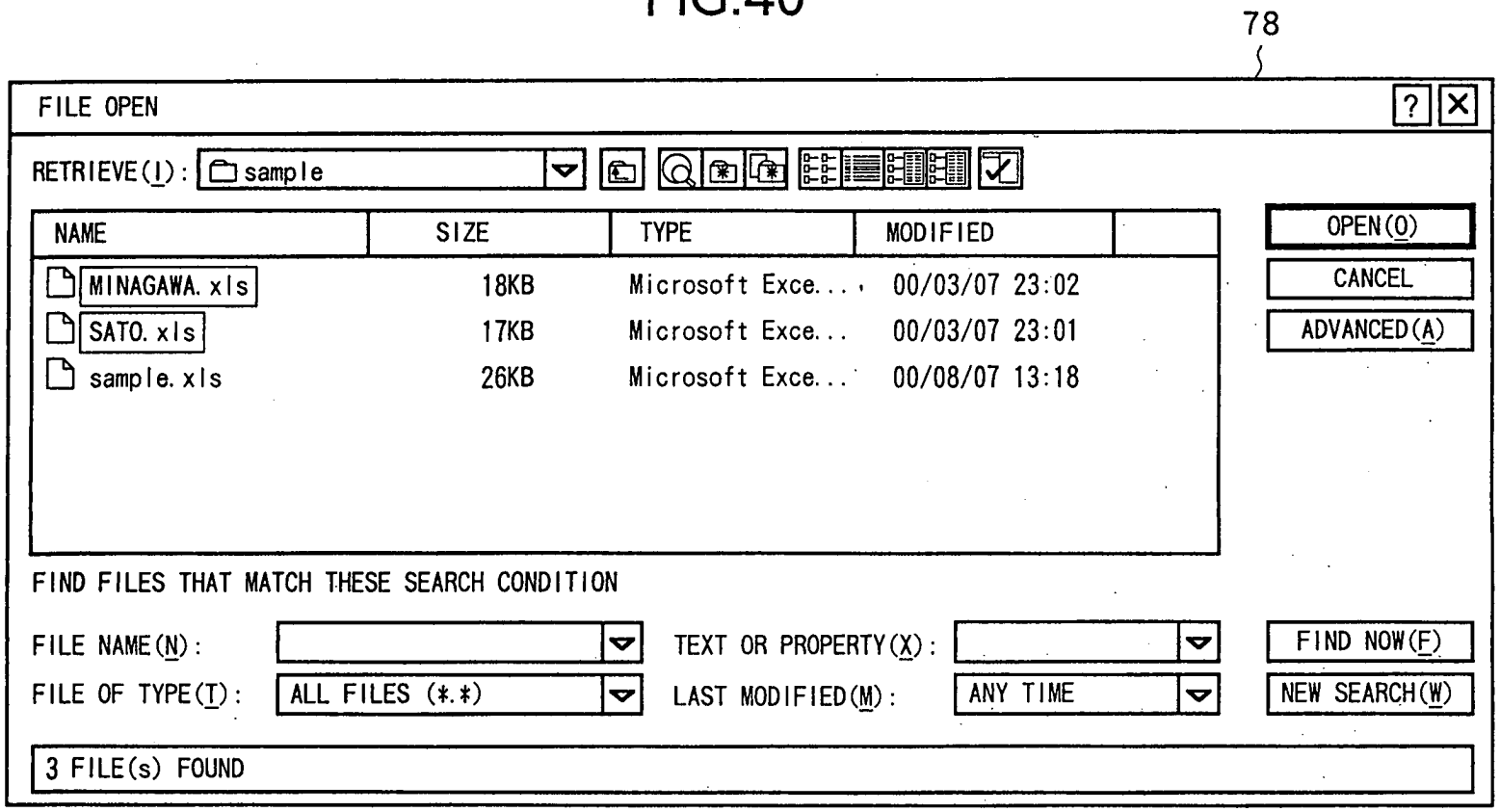
78
FILE OPEN
RETRIEVE(I):
sample
NAME
SIZE
TYPE
MODIFIED
MINAGAWA.xls
18KB
Microsoft Exce...
00/03/07 23:02
SATO.xls
17KB
Microsoft Exce...
00/03/07 23:01
sample.xls
26KB
Microsoft Exce...
00/08/07 13:18
OPEN(O)
CANCEL
ADVANCED(A)
FIND FILES THAT MATCH THESE SEARCH CONDITION
FILE NAME(N):
TEXT OR PROPERTY(X):
FILE OF TYPE(T):
ALL FILES (*.*)
LAST MODIFIED(M):
ANY TIME
FIND NOW(F)
NEW SEARCH(W)
3 FILE(s) FOUND

FIG.41

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1					TCP/IP SUMMARY	MIDDLE CLASS JAVA PROGRAMMING(LOD)	WINDOWS APPLICATION DEVELOPMENT BY MFO	JAVA BEENS COMPONENT DEVELOPMENT	C++GUIDE	C LANGUAGE PROGRAMMING					
2				TRAINING TYPE	S.B.O	S.B.O	S.B.O	S.B.O	H.R.	H.R.					
3				HELD MONTH											
4				HELD PLACE											
5	SECTION	PROJECT	EMPLOYEE NO.	NAME											
6	3RD DEV. DEP	SOURCE DISTRIBUTION TECHNIQUE	363207	I. KIMURA					◎						
7	3RD DEV. DEP	SOURCE DISTRIBUTION TECHNIQUE	752495	S. KAKIZOE		●		○							
8	3RD DEV. DEP	SOURCE DISTRIBUTION TECHNIQUE	363212	Y. KONISHI	◎		◎								
9	3RD DEV. DEP	SOURCE DISTRIBUTION TECHNIQUE	414405	K. SHIMADA				◎							
10	3RD DEV. DEP	SOURCE DISTRIBUTION TECHNIQUE	424873	Y. SEZAKI		◎									
11															
12															
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21															
22															
23															

MINAGAWA

FIG.42

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1					TCP/IP SUMMARY	DEBATING TECHNIQUE	STATE TRANSITION DIAGRAM AND LANGUAGE THEORY	MIDDLE CLASS JAVA PROGRAMMING	REVIEW TECHNIQUE					
2				TRAINING TYPE	S.B.O	S.B.O	S.B.O	S.B.O	S.B.O					
3				HELD MONTH										
4				HELD PLACE										
5	SECTION	PROJECT	EMPLOYEE NO.	NAME										
6	2ND DEV. DEP	LINKEXPRESS NEXT TERM	870510	M. SAKAI	◎									
7	2ND DEV. DEP	LINKEXPRESS NEXT TERM	363216	T. SEKINE			◎							
8	2ND DEV. DEP	LINKEXPRESS NEXT TERM	371711	T. TAKENAKA		○								
9	2ND DEV. DEP	LINKEXPRESS NEXT TERM	392283	K. SASAE				●						
10														
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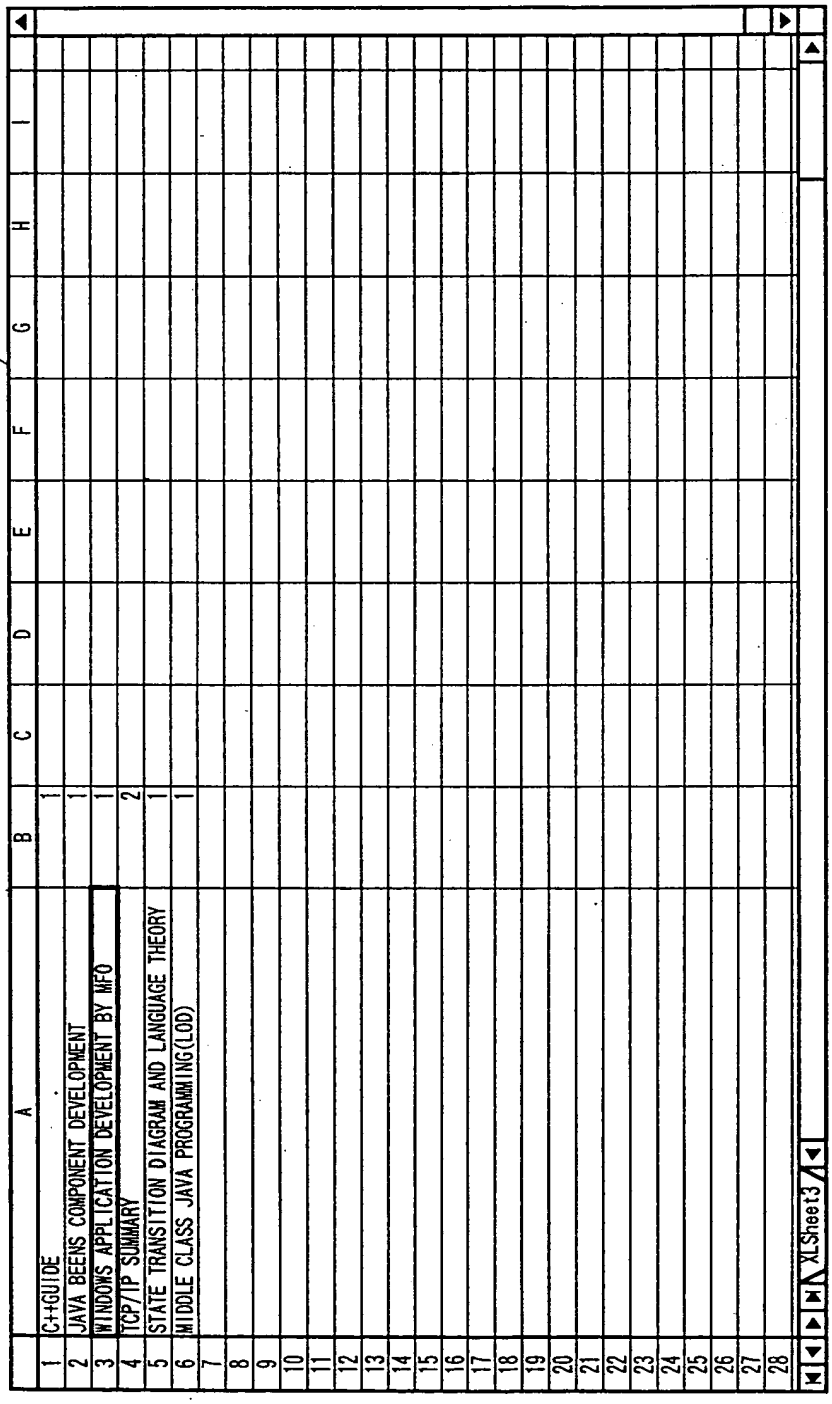
23														

SATO

FIG.43

80



	A	B	C	D	E	F	G	H	I
1	C++GUIDE	1							
2	JAVA BEENS COMPONENT DEVELOPMENT	1							
3	WINDOWS APPLICATION DEVELOPMENT BY MFO	1							
4	TCP/IP SUMMARY	2							
5	STATE TRANSITION DIAGRAM AND LANGUAGE THEORY	1							
6	MIDDLE CLASS JAVA PROGRAMMING(LOD)	1							
7									
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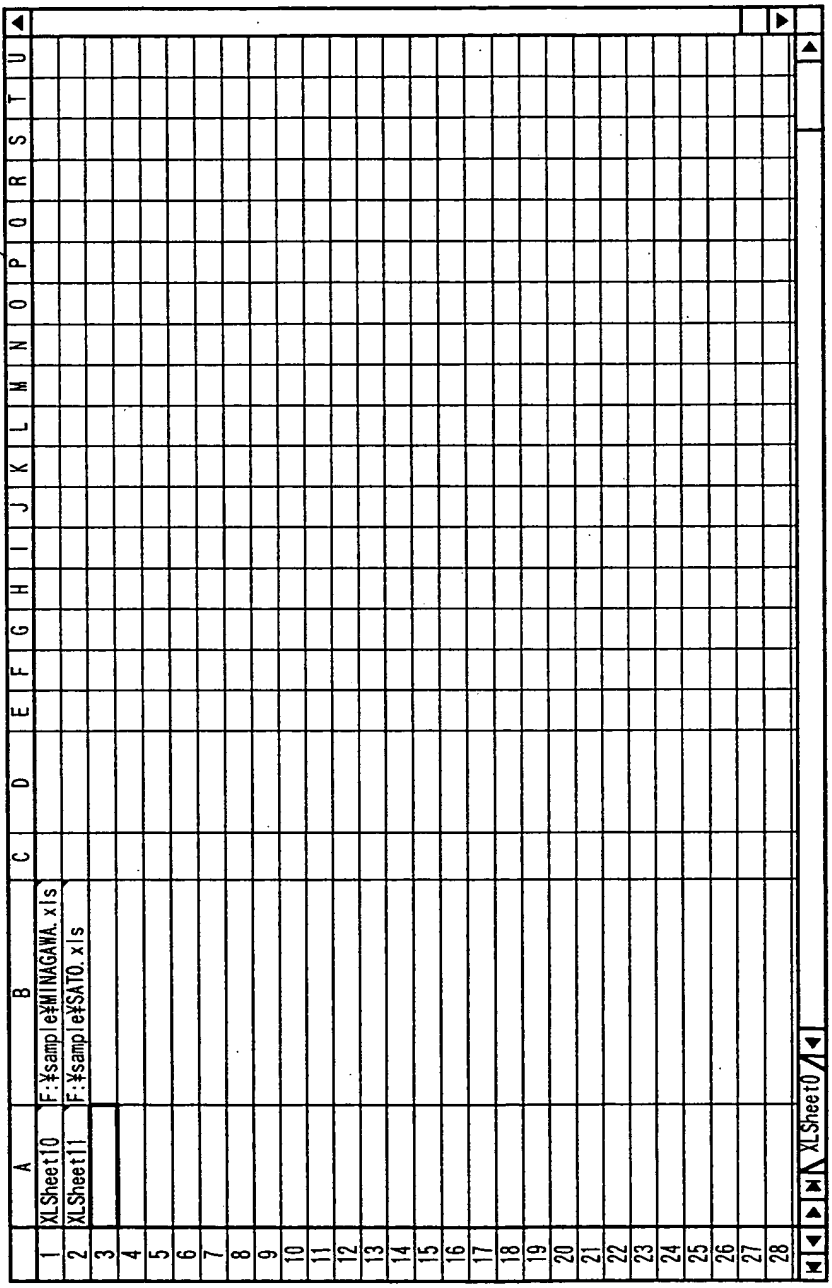
XLSheet3

FIG.44


82
A
B
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24
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26
27
28
XLSheet10
F:¥sample¥MINAGAWA.xls
XLSheet11
F:¥sample¥SATO.xls
XLSheet0